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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

July 13, 2004

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Art Unit 2184

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Application No. 10/767,729; Filed: January 30, 2004

For: Method Of Monitoring The Quality Of A Communications Channel

Inventors:

Proano et al.

Our Ref:

1875.5640000

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Original, executed Power of Attorney from Assignee;
- 2. Original, executed Statement under 37 CFR 3.73(b) with a copy of the Assignment attached; and
- 3. One return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Joff Holvery

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Jeffrey T. Helvey

Attorney for Applicants Registration No. 44,757

JTH/NDD/sjc 286269 1.DOC



POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-3616, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on (1) January 29, 2004, (2) January 29, 2004, (3) January 29, 2004, (4) January 29, 2004, (5) January 29, 2004, (6) January 29, 2004, and (7) January 29, 2004, of an invention known as Method Of Monitoring The Quality Of A Communications Channel (Attorney Docket No.1875.5640000), that is disclosed and claimed in a patent application of the same title by the inventors (1) Jay Proano, (2) Howard Baumer, (3) Chung-Jue Chen, (4) Ali Ghiasi, (5) Vasudevan Parthasarathy, (6) Rajesh Satapathy, and (7) Linda Ying, (said application filed on January 30, 2004 at the U.S. Patent and Trademark Office, having Application Number 10/767,729).

For the purpose of PAIR, the Customer Number is 26111.

The Assignee hereby appoint James D. Bennett, Registration No. 37,550, Jeffrey DeRoy Wheeler, Registration No. 39,066; Noel Benjamin Whitley, Registration No. 42,225; and Harry Shannon Tyson, Jr., Registration No. 42,193, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and the U.S. attorneys associated with CUSTOMER NUMBER 28393 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michael A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kirn, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987.. The Assignees hereby grant said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

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Direct phone calls to 202-371-2600.

FOR: Broadcom Corporation

SIGNATURE:_

— Dee Henderson

TITLE: Manager Intellectual Property Portfolio

DATE:

BY:

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\askut,	STATEMENT UNDER 37 CFR 3.73(b)	1875.5640000
Applicant/Patent Owner: Proano	et al.	
Application No./Patent No.:	10/767,729 Filed/Issue Date:	January 30, 2004
Entitled: Method Of Monitoring	The Quality Of A Communications Channel	
Broadcom	, a <u>corporation</u>	
(Name of Assignee)	(Type of Assignee, e.g., corporation,	partnership, university, government agency, etc.)
states that it is: 1. ☑ the assignee of the entire rig	ht, title, and interest; or	
 an assignee of less than the The extent (by percentage) identified above by virtue of 	of its ownership interest is ———— % in the pate	nt application patent
A. [x] An assignment from the inverse was recorded in the Patent a copy thereof is attached.	ntor(s) of the patent application/patent identified about Trademark Office at Reel, Frame _	ove. The assignment , or for which
OR		
assignee as shown below: 1. From: The document wa	ntor(s), of the patent application/patent identified about the patent and Trademark Office at practice, Frame, or for which a copt	·
2. From:	To: To: s recorded in the Patent and Trademark Office at	
	s recorded in the Patent and Trademark Office at, or for which a co	
3. From:	To:	
The document was Reel	s recorded in the Patent and Trademark Office at, Frame, or for which a co	ppy thereof is attached.
	s in the chain of title are listed on a supplemental sh	
[NOTE: A separate copy (i.e.,	r documents in the chain of title are attached. the original assignment document or a true copy of nent Division in accordance with 37 CFR Part 3, if th PTO. See MPEP 302.08]	
The undersigned (whose title is su	pplied below) is authorized to act on behalf of the as	ssignee.
July 7,2004		Dee Henderson
Date	Pype	ed or printed name
(949) 926-5958		war -
Telephone number	A = I	Signature
	"I (ando)	Tifle

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

TO DO NOT FORWARD NOT FOR RECORDATION In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid each of the undersigned inventors: (1) Jay Proano, (2) Howard Baumer, (3) Chung-Jue Chen, (4) Ali Ghiasi, (5) Vasudevan Parthasarathy, (6) Rajesh Satapathy, and (7) Linda Ying, the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as Method Of Munitoring The Quality Of A Communications Channel for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (!) 1/29/04; (2) 1/29/04; (3) 1/29/04; (4) 5 5 1/29/04; (5) 1/29/04; (6) 1/29/04; and (7) 1/29/04 (also known as United States Application 80. (to be assigned),), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent appropriate from such patent appropriate forms of intellectual and industrial property protection derivable from such patent applications are derivable from any and all continuing applications, reissues, extensions, renewals and experiments of such patent application, including, without limitation, patents, applications, utility patents flavoring certificates, and designs together with the right to file applications therefor, and including the fight to for the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic lawyer of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any nonprovisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned,

The undersigned inventors hereby grant James D. Bennett, Registration No. 37,550, Jeffred DeRoy Wheeler, Registration No. 39,066; Noel Benjamin Whitley, Registration No. 42,225; and Harry Shannon Tyson, Jin Registration No. 42,193, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and Robert Grene State B.A. Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 32,893; Tasy, Gell No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tasy, Gell No. 30,013; David K.S. Cornwell, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 36,688; And And And Andrew Sakahil, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; And Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Esq., Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Registration No. 36,033; John M. Covert, Esq., Andrew Sakahil, Registr Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 32,893; Teapy Jens VV 29,021; David K.S. Comwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Teapy Jens VV 29,021; David K.S. Comwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 33,851; Michael B. Ray, Park G. Durkin, Esq., Registration No. 32,893; Michael B. Ray, Park G. Durkin, Esq., Registration No. 36,688; Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 35,239; Steven R. Ludwig, Bsq., Registration No. 36,203; John M. Covert, Esq., 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further

TO DO NOT FORWARD NOT FOR RECORDATION

identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name. Date: Signature of Invento Signature of Inventor: Signature of Inventor. Signature of Inventor: Signature of Inventor: DO NOT FORWARD Vasudevan, Parthasarathy Signature of Inventor. OR RECORDATION Signature of Inventor. Linda Ying